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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,423	07/05/2005	Hiroyuki Ogino	38370	1217
52054 7590 10/09/2007 PEARNE & GORDON LLP 1801 EAST 9TH STREET			EXAMINER	
			ALLEN, ANDRE J	
SUITE 1200 CLEVELAND, OH 44114-3108			ART UNIT	PAPER NUMBER
			2855	
			NOTIFICATION DATE	DELIVERY MODE
			10/09/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patdocket@pearne.com dchervenak@pearne.com

	Application No.	Applicant(s)				
	10/541,423	OGINO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Andre J. Allen	2855				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status		•				
1)⊠ Responsive to communication(s) filed on <u>21 June 2007</u> .						
,— ,—						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-9</u> is/are rejected.						
7) Claim(s) is/are objected to.	r election requirement					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. ☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	.*					
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.						
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal F	Patent Application				
Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ogino et al (US 2005/0166680).

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Regarding claim 1 Ogino et al teaches a sensor unit 12 in which a piezoelectric layer 22 containing a piezoelectric ceramic [0071] material is sandwiched by a plurality of electrodes 20 21 a covering layer 23 which covers the sensor unit 12; and heat insulating means 14 made from an expandable synthetic resin [0064] which covers the circumference of the covering layer. Ogino et al however does not teach a synthetic resin.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the resin as disclosed by Ogino et al to include a "synthetic resin". Lacking any criticality, since Ogino et al teaches at least a resin it would be obvious to a person in the art to test several types of resins within multiple conditions in order to discover the most optimum type of resin. Furthermore, The selection of a known material based upon its suitability for the intended use is a consideration within the skill of the art. In re Leshin, 227 F.2d 197, 125 USPQ 416 (CCPA 1960).

Regarding claim 2 Ogino et al teaches the sensor unit is a cable-like sensor [0126][0136] comprising a primary electrode which makes up a core unit [0136][0126], a piezoelectric layer 22 which covers the primary electrode 20 and a secondary electrode 21 which covers the outside of the piezoelectric layer [0136][0126].

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Regarding claim 3 Ogino et al teaches the sensor unit is a sheet-like

[0074]sensor which is formed such that sandwiched by a primary

electrode a piezoelectric layer 22 is electrode and a secondary [0074]

Regarding claim 4 Ogino et al teaches the heat insulating means is an

elastic material having a hollow portion 16 formed therein [0064].

Regarding claim 5 Ogino et al teaches the heat insulating means is made

to double as the covering layer [0067].

Regarding claim 6 Ogino et al teaches the heat insulating means

comprises a mounting portion for mounting the pressure sensor on an

equipment base material (fig. 2).

Regarding claim 7 Ogino et al teaches molding a heat insulating means on

the periphery of the sensor unit through extrusion molding [0020].

Regarding claim 8 and 9 Ogino et al teaches opening and closing equip

ment (fig. 1) and determination means for determining on the contact of a

foreign matter with the pressure sensor based on an output signal of the

pressure (abstract).

Response to Arguments

2. Applicant's arguments with respect to claims 1-9 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andre J. Allen whose telephone number is 571-272-2174. The examiner can normally be reached on mon-fri 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on 571-272-2180. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

André J. Allen Patent Examiner

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